

CLAIMS

1. A polarizer comprising a film having a structure having a minute domain dispersed in a matrix formed of a translucent thermoplastic resin including an absorption dichroic dye,

wherein a transmittance to a linearly polarized light in a transmission direction is 80% or more,

a haze value is 10% or less, and

a haze value to a linearly polarized light in an absorption direction is 50% or more.

2. The polarizer according to Claim 1, wherein the minute domain is formed of an oriented birefringent material.

3. The polarizer according to Claim 2, wherein the birefringent material shows liquid crystalline at least in orientation processing step.

4. The polarizer according to Claim 2 or 3, wherein the minute domain has 0.02 or more of birefringence.

5. The polarizer according to any one of Claims 2 to 4, wherein in a refractive index difference between the birefringent material forming the minute domain and the translucent thermoplastic resin in each optical axis direction,

a refractive index difference (Δn^1) in direction of axis showing a maximum is 0.03 or more, and

a refractive index difference (Δn^2) between the Δn^1

direction and a direction of axes of two directions perpendicular to the Δn^1 direction is 50% or less of the Δn^1 .

6. The polarizer according to any one of claims 1 to 5, wherein a ratio of a backscattering strength to an incident light strength is 30% or less.

7. The polarizer according to any one of Claims 1 to 6, wherein an absorption axis of the absorption dichroic dye is oriented in the Δn^1 direction.

8. The polarizer according to any one of Claims 1 to 7, wherein the film is manufactured by stretching.

9. The polarizer according to any one of Claims 1 to 8, wherein the minute domain has a length of 0.05 to 500 μm in the Δn^2 direction.

10. The polarizer according to any one of claims 3 to 9, wherein the birefringent material forming the minute domain is a liquid crystalline thermoplastic resin showing up a state of a nematic phase or a smectic phase in a temperature region lower than a glass transition temperature of the translucent thermoplastic resin.

11. The polarizer according to any one of claims 3 to 9, wherein a birefringent material forming the minute domain is a product obtained by polymerization after aligning a liquid crystalline monomer showing up a state of a nematic phase or a smectic phase in a temperature region lower than the glass transition temperature of the translucent thermoplastic resin.

12. The polarizer according to any one of claims 1 to 11, wherein the absorption dichroic dye is a dye having at least one absorption band with a dichroic ratio of 3 or more in the visible light wavelength region.

5 **13. A polarizing plate comprising a transparent protective layer formed at least on one side of the polarizer according to any one of Claims 1 to 12.**

10 **14. An optical film comprising at least any one of the polarizer according to any one of Claims 1 to 12 or the polarizing plate according to Claim 13.**

15. An image display comprising at least any one of the polarizer according to Claims 1 to 12, the polarizing plate according to Claim 13, or the optical film according to Claim 14.